

Anti-UBE2Q2 Picoband Antibody

Catalog # ABO12525

Product Information

Application	WB, IHC-P
Primary Accession	Q8WVN8
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Ubiquitin-conjugating enzyme E2 Q2(UBE2Q2) detection. Tested with WB, IHC-P in Human.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	92912
Other Names	Ubiquitin-conjugating enzyme E2 Q2, 2.3.2.23, E2 ubiquitin-conjugating enzyme Q2, Ubiquitin carrier protein Q2, Ubiquitin-protein ligase Q2, UBE2Q2
Calculated MW	42818
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μ g/ml, Human, By Heat Western blot, 0.1-0.5 μ g/ml, Human
Subcellular Localization	Cytoplasm .
Tissue Specificity	Detected in hypopharyngeal head and neck squamous cell carcinoma, in tumor masses and invasive epithelium. .
Source	Eukaryota
Protein Name	Ubiquitin-conjugating enzyme E2 Q2
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Na ₃ N.
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human UBE2Q2 (83-123aa LERLEDTKNNLLRQQLKWLICELCSLYNLPKHLDVEMLDQ), different from the related mouse sequence by four amino acids.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins

Storage	At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.
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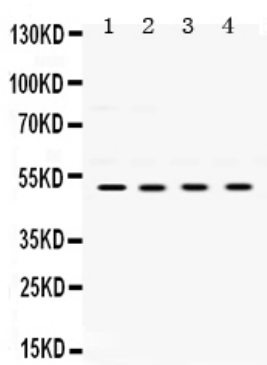
Protein Information

Name	UBE2Q2
Function	Accepts ubiquitin from the E1 complex and catalyzes its covalent attachment to other proteins. In vitro catalyzes 'Lys-48'-linked polyubiquitination.
Cellular Location	Cytoplasm.
Tissue Location	Detected in hypopharyngeal head and neck squamous cell carcinoma, in tumor masses and invasive epithelium

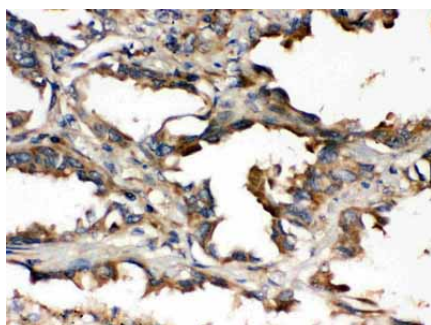
Background

UBE2Q2 is identified as a putative ubiquitin-conjugating enzyme (E2) in a microarray screen for mitotic regulatory proteins. Its gene is mapped to 15q24.2. UBE2Q2 can covalently bind ubiquitin on the active site cysteine within the UBC domain. Inhibition of UBE2Q2 in HeLa cells causes an early mitotic arrest and increases cytotoxicity when the cells are treated with microtubule-inhibiting agents (MIAs). Changes in cell cycle progression and viability are not observed in the absence of MIA treatment, indicating that UBE2Q2 is involved in the response to MIAs rather than performing a more general function in mitosis. Moreover, inhibition of the UBE2Q2 protein causes cells to undergo a prolonged prophase arrest, suggesting that UBE2Q2 normally functions to antagonize an early mitotic checkpoint. Finally, inhibition of UBE2Q2 also sensitizes cells to the cytotoxic effects of MIAs through caspase-mediated apoptosis that is correlated with PARP1 cleavage.

Images



Anti- UBE2Q2 Picoband antibody, ABO12525, Western blotting
All lanes: Anti UBE2Q2 (ABO12525) at 0.5ug/ml
Lane 1: HELa Whole Cell Lysate at 40ug
Lane 2: A431 Whole Cell Lysate at 40ug
Lane 3: MCF-7 Whole Cell Lysate at 40ug
Lane 4: SW620 Whole Cell Lysate at 40ug
Predicted bind size: 50KD
Observed bind size: 50KD



Anti- UBE2Q2 Picoband antibody, ABO12525, IHC(P)
IHC(P): Human Lung Cancer Tissue

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.